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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/010,892	11/05/2001	Bradley W. Plattner	GRD0128.US	3059
7.	590 04/21/2004		EXAMINER	
Todd T. Taylor			LE, THANH TAM T	
TAYLOR & AUST, P.C. 142 S. Main St.			ART UNIT	PAPER NUMBER
P.O. Box 560	• • • • • • • • • • • • • • • • • • • •			
Avilla, IN 46	710		DATE MAILED: 04/21/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/010,892	PLATTNER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Thanh-Tam T. Le	2839				
The MAILING DATE of this communication app Period for Reply	pears on the cov rsh et with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>08 M</u>	larch_2004.					
•—	action is non-final.					
•—	<u>-</u>					
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 1-7,9-14,16 and 17 is/are pending in 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 1-7, 9-14, 16-17 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority document</li> <li>2. Certified copies of the priority document</li> <li>3. Copies of the certified copies of the priority application from the International Burea</li> <li>* See the attached detailed Office action for a list</li> </ul>	s have been received. Is have been received in Applicat Inity documents have been receive In (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachment(s)  1)	4) 🔲 Interview Summary	(PTO-413)				
<ol> <li>Notice of References Cited (PTO-992)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date</li> </ol>	Paper No(s)/Mail D	ate Patent Application (PTO-152)				

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-7, 9-14 and 16-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Douty et al. (4,367,005) in view of Bandyopadhyay (5,203,397) and Ignatowicz (4,280,746).

Regarding claims 1 and 9, Douty et al., figures 1 and 3, disclose a strain relief cover which read on an electrical connector for coupling a plurality of electrical conductors which enclosed in a sleeve, comprising:

- a plurality of electrical conductors (46);
- a sleeve (12, a sheath for a cable) carries the plurality of electrical conductors (column 1, lines 31-33); and
- a connector (10 and 14, 16, a connector and a cover members, respectively)
   comprises a housing which including a first end has an opening (O, attachment) with an inner surface (X, attachment) to accommodate the sleeve and the plurality of electrical conductors. The inner surface having a plurality of pointed projections (24, a plurality of teeth), each of the pointed projections having a ramped side (B, attachment), which is extending farther from the inner surface in a direction away from the opening. The projections including

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two adjacent sides (A, attachment) being adjacent to the ramped side that extending from the inner surface (the Examiner notes that the inner surface is the upper face of the cover (16)). The pointed projections separate at least a portion of the plurality of electrical conductors between the pointed projections.

Douty et al. disclose the instant claimed invention as described above except for a fiberglass sleeve; the point projections including two adjacent sides being adjacent to the ramped side that extending from the inner surface meeting to form a chisel point and the pointed projections engage the fiberglass sleeve.

Bandyopadhyay discloses a die-casing assembly having a plurality of conductors (10) is surrounded by a fiberglass sleeve (20, column 5, lines 3-5). It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide Douty et al.'s cable with the fiberglass sleeve as taught by Bandyopadhyay, since fiberglass is a known and conventional material used for surrounding conductors.

Douty et al. state that the shape of the teeth is of little consequence to the functionality of the invention (column 2, lines 35-36). Therefore, it would have been obvious for the chiseled surface of Douty et al. to end in a point as such a shape change would not affect the function of the device.

Ignatowicz, figures 2-5, discloses a connector (10) having a cable (50) and a tab (35) which read on the pointed projections engage the fiberglass sleeve (Ignatowicz, column 5, lines 43-46). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Douty et al. and Bandyopadhyay to have the Application/Control Number: 10/010,892

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tab and the cable as taught by Ignatowicz, in order to prevent the cable from pulling out of the connector and provide strain relief (Ignatowicz, column 5, lines 43-46).

Regarding claim 2, Douty et al., figure 3, disclose at least one electrical terminal (42) being constrained within the housing and electrically connected to at least one of the plurality of electrical conductors.

Regarding claims 3 and 10, Douty et al., figure 1, disclose each of the adjacent sides of the pointed projections forms an obtuse angle with the inner surface.

Regarding claims 4 and 11, Douty et al., figure 1, disclose each of the pointed projections having a front side (C, attachment) which oppositing with the ramped side and adjacent to two adjacent sides. The front side/other side being generally perpendicular to the inner surface (this front side compares to the inner surface which is the upper surface of the cover 16).

Regarding claims 5-6 and 12-13, Douty et al., figure 1, disclose the plurality of pointed projections are formed a plurality of rows on the inner surface.

Regarding claims 7 and 14, Douty et al., figure 2, disclose the housing includes at least two housing portions (14, 16). Each of the housing portions configured to connect with at least one other of the housing portions.

Regarding claims 16 and 17, a method of forming an electrical cable is inherent property of Douty et al. and Bandyopadhyay.

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## Response to Arguments

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3. Applicant's arguments with respect to claims 1, 9 and 16 have been considered but are most in view of the new ground(s) of rejection.

#### Conclusion

- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh-Tam T. Le whose telephone number is (571) 272-2094. The examiner can normally be reached on 7:30-5:00.
- 5. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Feild can be reached on (571) 272-2092. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.
- 6. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TL. 04/17/04. Thanh-Tan Le